EdilKamin Pellet Fire Installation & Operation Manual

metrofires

Iris Plus & Little Models

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NZHHA
New Zealand Home Heating Association Inc.

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⚠ WARNING! Important Information

- **THE APPLIANCE AND FLUE-SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH AS/NZS 2918 AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODE OR CODES.**
- **THE PELLET FIRE MUST NOT BE LOCATED IMMEDIATELY BELOW AN ELECTRICAL SOCKET-OUTLET.**
- **CAUTION: THE PELLET FIRE HAS MOVING PARTS. DISCONNECT POWER BEFORE SERVICING.**

Purchase Information

Please record and retain the following information for future reference

Customer Name .....

Installation address .....

Phone Hm..... Mobile ..... Work .....

Model ..... Serial Number .....

Retailer purchased from .....

Retailer Address ..... Date Purchased .....

Comments .....

.....

Safety Information

The pellet fire is designed to heat the room it is installed in by radiation and by air movement from the front grilles. The heat is generated by automatic pellet combustion in the firebox.

The only risks which may derive from use of the pellet fire are linked with non-compliance with the installation instructions, direct contact with live electrical parts (inside) or with the fire or hot parts (glass, pipes and hot air outlet), and the introduction of foreign substances. Only use wood pellets as fuel.

If components fail, the pellet fire is fitted with safety devices which turn it off. This must be allowed to happen without interference.

For correct operation, the pellet fire must be installed in compliance with the instructions on pages 5 & 6 and the door must not be opened while running: combustion is managed automatically so no manual operations are needed.

Please take particular note of the following:

- Never put foreign substances in the firebox or hopper.
- Do not use flammable products to clean the smoke duct.
- Firebox and hopper components must only be cleaned using a vacuum cleaner.
- The glass must be cleaned only when cold with glass cleaner and cloth. Do not clean door glass when hot.
- During operation, the outlet pipes and door reach high temperatures. Install a child guard if children present.
- Do not keep objects which are not able to withstand heat in the immediate vicinity of the pellet fire.
- Never use liquid fuels to light the pellet fire or rekindle the embers.
- Do not block ventilation openings in the room where the pellet fire is installed or air inlets in the pellet fire itself.
- Do not get the pellet fire wet, and do not put wet hands near electrical parts.
- Do not fit reducers on the smoke outlet pipes.
- The pellet fire must be installed in a suitable place as regards fire safety, and provided with all the facilities (power supply and outlets) it requires for correct safe operation.
- Before carrying out any maintenance, disconnect the device from the mains power supply.

Iris Plus

Little

Operation of your pellet fire (Iris Plus & Little models)

The Iris Plus and Little are pellet burning fires which manage pellet combustion electronically.

The fuel (pellets) is taken from the storage hopper (A) and delivered to the combustion chamber (D) by a auger (B) driven by a gearmotor (C).

The pellets are ignited by hot air produced by a heating element (E) which is drawn into the combustion chamber by a centrifugal fan (M).

The combustion smoke produced is drawn out of the firebox by the same centrifugal fan (M), and expelled from the outlet (F) at the bottom rear of the pellet fire.

Air is blown into the hollow space at the back of the firebox by a fan (G), where it is heated before coming out into the room from the front grille (I).

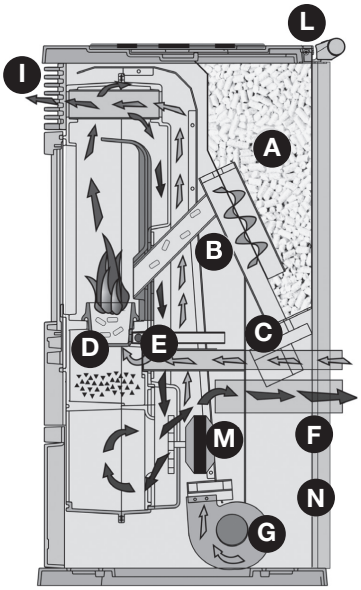
The amount of fuel and the smoke extraction/combustion air supply are controlled by an electronic circuit board (N) in order to achieve highly efficient fuel consumption.

All operating stages are managed and displayed using the display-control panel (L) and two knobs on the front panel under the door (Little Model only) which allow all operating stages to be managed and displayed.

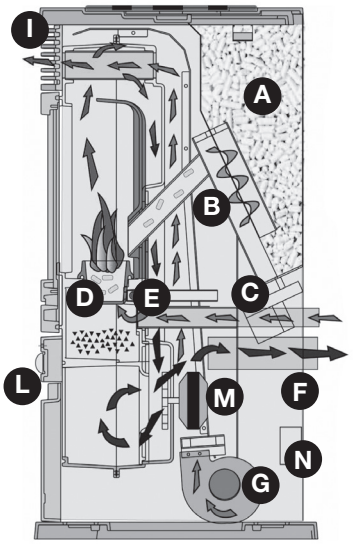
The same functions may also be managed by remote control (optional).

The pellet hopper is at the top of the pellet fire. The hopper is filled through a lid found at the back of the top The internal structure of the pellet fire is completely made of cast iron.

The external covering of the Iris Plus is ceramic, and the external covering of the Little is metal.



Iris Plus



Little

The Fuel

The Iris Plus and Little pellet fires are designed and programmed to burn wood pellets.

Pellets are small cylinders about 6mm in diameter made from sawdust or shredded waste wood, pressed at high pressure without the addition of adhesives or other foreign material.

To prevent damage to the pellet fires, do not burn any other substances. The use of other materials (including wood), which can be detected by laboratory analysis, invalidates the guarantee.

EdilKamin has designed, tested and programmed its pellet fires to perform best with pellets with the following characteristics:

- Diameter: 6 - 7 millimetres
- Maximum length: 40 mm
- Maximum moisture content: 8 %
- Heat output: at least 20.2 Mj/kg

The use of unsuitable pellets can lead to decreased performance, operating anomalies, stoppages due to clogging, dirty glass, unburnt fuel, etc.

The pellets can be easily analysed by visual examination.

Good quality: smooth, even short lengths, not very dusty.
Poor quality: with horizontal and vertical splits, very dusty, variable lengths and mixed with foreign matter.

Technical Specifications (Iris Plus & Little models)

The heatable room dimensions are calculated on the basis of pellets with a calorific value of at least 20.2Mj/kg and home insulation in compliance with NZ regulations. It is also important to consider the location of the pellet fire in the room heated.

Please note: External electrical devices may cause interference. Work related to live parts/components, servicing and/or inspections must be carried out by qualified staff.

Optional extras

- **Remote Control (cod. N. 254160)**
  It is possible to buy a remote control to turn the pellet fire on and off and adjust it remotely.

IRIS PLUS (TECHNICAL & HEATING SPECIFICATIONS)	
Hopper capacity	15kg
Efficiency	71%
Heat Output	3.4/8kW
Burn time (min/max)	7.5/17 hours
Fuel consumption	0.9/2.0 kg/h
Heatable room dimensions	150m2
Weight	140kg
Smoke duct diameter (male)	80mm
Air intake duct diameter (male)	40mm

LITTLE (TECHNICAL & HEATING SPECIFICATIONS)	
Hopper capacity	15kg
Efficiency	73.8%
Heat Output	3.4/5kW
Burn time (min/max)	10/30 hours
Fuel consumption	0.5/1.45 kg/h
Heatable room dimensions (min/max)	120m2
Weight	136kg
Smoke duct diameter (male)	80mm
Air intake duct diameter (male)	40mm

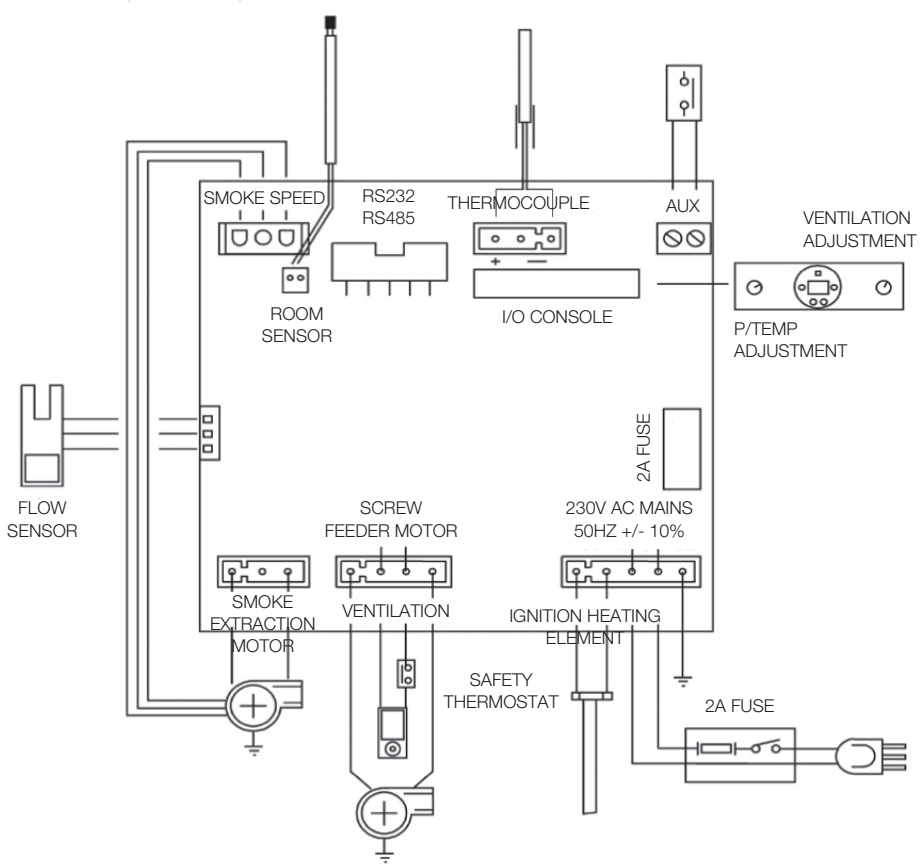
IRIS PLUS & LITTLE MODELS (ELECTRICAL SPECIFICATIONS)	
Power supply	230VAC +/-10% 50 Hz
0/1 switch	yes
Average power consumption	150 W
Power consumption during ignition	400 W
Remote control frequency (optional)	infrared
Electronic circuit board protection	5 x 20 2 A 250 VAC fuse

IRIS PLUS & LITTLE MODELS (SAFETY DEVICES)

Thermocouple: Placed at the smoke outlet to detect the temperature, turns the pellet fire on and off and controls its operation based on defined parameters.

Air flow sensor: Installed at the intake duct, it trips when the combustion air flow is not correct, causing low pressure problems in the smoke circuit.

Safety thermostat: Trips when the temperature inside the pellet fire is too high. It stops pellet loading, causing the pellet fire to shut down.



⚠ WARNING! Important Information

- **ALL VENT PIPE JOINTS MUST BE RIVETED AND SEALED WITH HIGH TEMPERATURE SILICONE. DO NOT USE FIRE CEMENT!**

⚠ CAUTION! Important Information

- **MIXING OF APPLIANCE OR FLUE SYSTEM COMPONENTS FROM DIFFERENT SOURCES OR MODIFYING THE DIMENSIONAL SPECIFICATION OF COMPONENTS MAY RESULT IN HAZARDOUS CONDITIONS. WHERE SUCH ACTION IS CONSIDERED, THE MANUFACTURER SHOULD BE CONSULTED IN THE FIRST INSTANCE.**

Positioning the pellet fire

1 If possible position the fire in a room that is centrally located in the home and direct the fire so that it blows hot air into the living area first then forces the air out into the rest of the house.

Avoid positioning the fire close to your TV or sitting area so as not to be distracted by any fan noise. Unlike a conventional wood fire you do not need to be close to a pellet fire; they act more like central heating systems pushing warm air throughout the house.

2 Check clearances to combustible materials, refer to chart and drawings on page 9.

3 Ensure a power outlet is within 1.5 metres.

4 Check the vent pipe will clear structural beams, trusses or studs.

5 Check that curtains cannot come in contact with the pellet fire.

6 Any unshielded vent pipe must have 75mm clearance to combustibles.

7 Ensure the area where the floor protector will sit is level, shim as required, final leveling can be done with the adjustable feet on the pellet fire.

If the vent pipe is to be installed through the ceiling, use the Metro Ceiling Vent Kit. Insert the condensation tee into the 80mm outlet at the rear of the pellet fire. Assemble and fit the vent system to the pellet fire as per instructions supplied with the vent kit.

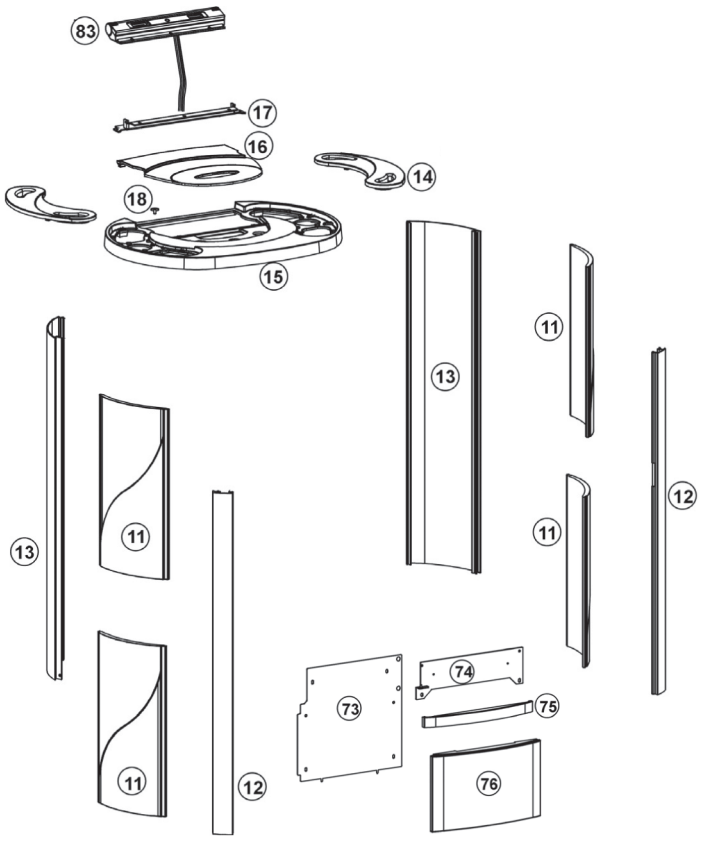
If the vent is to exit through the rear wall use the Metro Through Wall Vent Kit, the condensation tee is located outside.

8 Before assembling the soap stone or ceramic side panels (Iris Plus only) position the pellet fire in the desired location, check that the pellet fire and floor protector have adequate clearances to combustible material and that the vent system will be clear of ceiling joists, trusses etc.

9 Once you are satisfied you have the pellet fire in its final position, secure it to the floor using suitable anchors. Drill through the floor protector and into the floor using the two 8mm holes provided at the centre of the pellet fire base. Then proceed as follows in the order shown (Iris Plus only):

- Remove the 8 screws found under the top tiles (14) and the 2 rear panel screws;
- Lift the top up 2-3 cm (15) and move it slightly to the right, enough to insert the two side tiles (11) into the aluminium bars (12-13); Take care not to damage the data cable on the rear display;
- Move the top (15) to the left, enough to insert the two side tiles (11) into the aluminium bars (10-13);
- Put the top (15) back in the middle and replace the previously removed screws;
- Put the two upper tiles (14) in place. Lastly, open the door, and fasten the front ceramic insert (75) with silicon to the cover plate (74).

If combustion air is drawn from outside the home, ensure that a suitable grill and wind protector is fitted as wind gusts will upset the combustion sensors, the Metro Direct Vent Kits are suitable for this.



Check for compatibility with other devices

The Pellet Fire must NOT be installed in the same room as extractor fans or any other devices that could reduce the pressure in the room.

Assembly and Installation of your Pellet Fire (Iris Plus & Little models)

Fire Safety Distances and Location

The Pellet Fire must be level for it to work correctly. Check the floor's load-bearing capacity. The Pellet Fire must be installed in compliance with the following safety conditions:

- minimum distance from combustible materials around the sides and back of the Pellet Fire (see specifications and clearances chart (page 9)
- flammable materials must not be placed less than 800mm from the front of the Pellet Fire
- if the stove is installed on a combustible floor, a sheet of heat-insulating material must be placed between the two, extending out by at least 100mm at the sides and 200mm at the front.

If the vent pipe is to exit through a wall made of wood or other flammable materials it must be suitably insulated using a double lined through wall vent system, such as the Metro through wall vent kit.

Air Intake

The room where the Pellet Fire is installed must have an air intake of at least 80 cm^2 to ensure a supply of fresh air to replace the air consumed by combustion.

Alternatively, the Pellet Fire can be supplied with air drawn directly from the outside through a pipe extension, we use 100mm, which must have a free section of at least 12 cm^2, must be protected by a mesh. The pipe must not exceed 1 metre in length and should not have any sharp bends.

It must be fitted with a wind guard, as wind gusts will upset the air flow sensor.

Pellet Fire Vent System (Iris Plus & Little models)

⚠ WARNING! Important Information

- **DO NOT USE MAKESHIFT MATERIALS OR MAKE COMPROMISES IN THE INSTALLATION. IT IS A FIRE HAZARD.**
- **DO NOT INSTALL A FLUE DAMPER IN THE EXHAUST VENTING SYSTEM OF THIS PELLET FIRE.**
- **DO NOT CONNECT THIS PELLET FIRE TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.**

Venting System

Your pellet fire works under negative pressure (vacuum). The exhaust fan of your pellet fire pulls air from the air intake, through the pellet fire and pushes it out the venting. Air passing through the burn pot is used to burn the pellets. Proper vent pipe sizing is very important to ensure the pellet fire operates properly. A proper size approved vent should be used to provide the least resistance for movement of the combustion air.

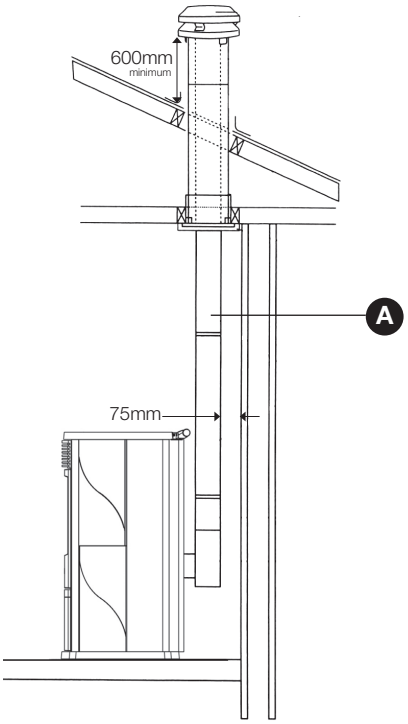
Your pellet fire is certified for 100mm exhaust venting. The vent pipes on the exhaust side of the exhaust fan are under pressure. Care must be taken to ensure that all the joints are completely sealed to prevent any leakage of exhaust fumes and smoke into the house. If you smell smoke, the venting has not been properly sealed. Use only high temperature RTV silicone for sealing. Aluminum tape is not considered an adequate sealant. At least 3 screws are needed for securing all vent pipe joints.

The venting of this pellet fire is not allowed to pass unshielded through any closets, concealed spaces, floors, ceilings or attic spaces. If the venting must go through a wall or combustible partition, the installation must conform to the Installation Code for Solid Fuel Burning Appliance and Equipment AS/NZS 2918:2001. For more detailed venting information, please refer to your venting manufacturer's instructions.

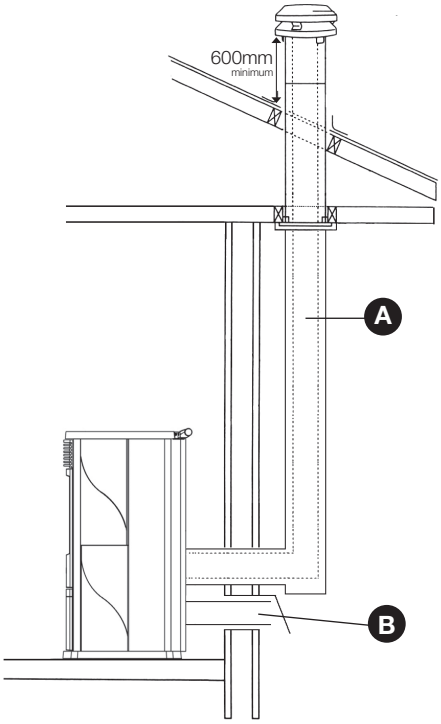
Exhaust Vent Termination Requirements

The exhaust vent must terminate into an open space. Under no circumstances is the vent allowed to terminate into closed or semi-closed spaces. Venting into a garage, under a sun deck, porch or any other space where the concentration of fumes may occur is prohibited.

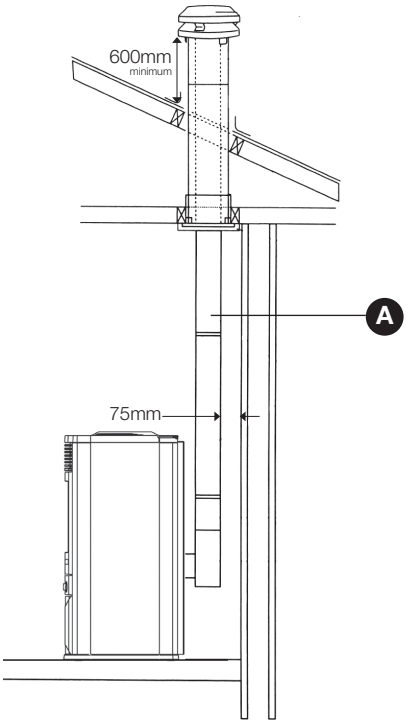
Pellet Fire Vent System (Iris Plus & Little models)



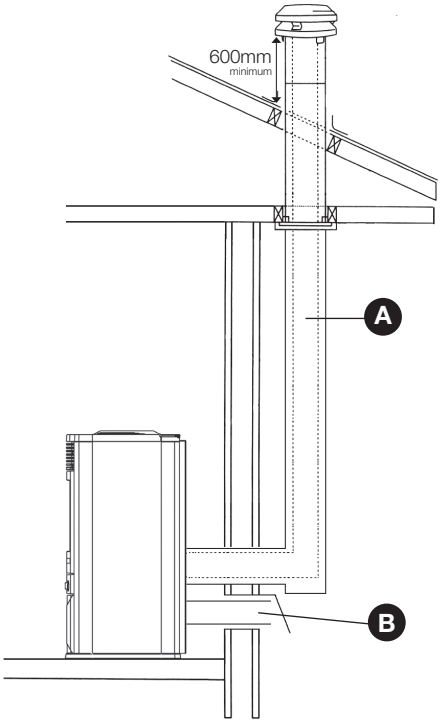
IRIS PLUS - FIGURE 1



IRIS PLUS - FIGURE 2



LITTLE - FIGURE 1



LITTLE - FIGURE 2

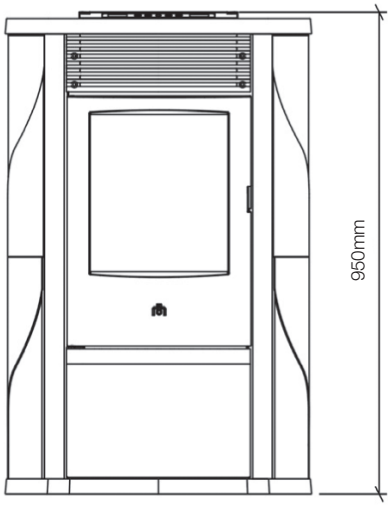
A: Stainless steel vent

B: Air intake (minimum internal section 50mm diameter)

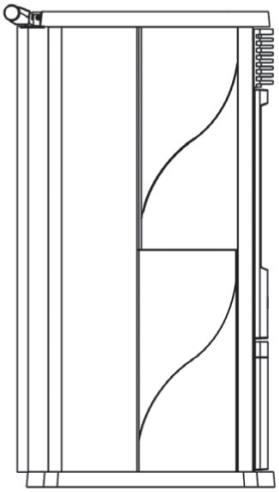
Although EdilKamin pellet fires have been tested and approved for 100mm side wall and 200mm rear wall clearance. We recommend sufficient space be provided (minimum 200mm) on each side of the pellet fire to service the unit. If this is not possible, provision must be made available to remove the unit for servicing.

Pellet Fire Dimensions (Iris Plus & Little models)

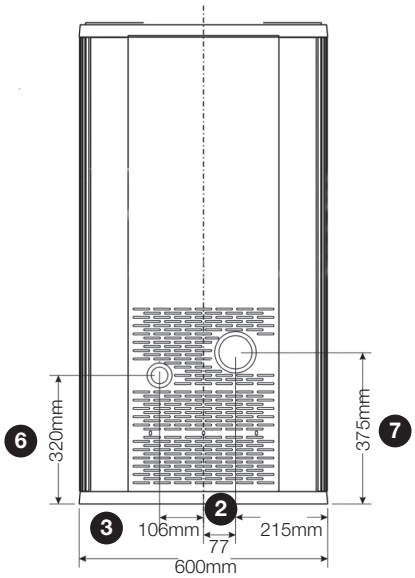
IRIS PLUS (FRONT PROFILE)



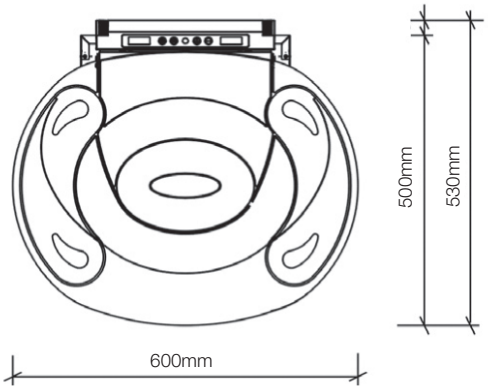
IRIS PLUS (SIDE PROFILE)



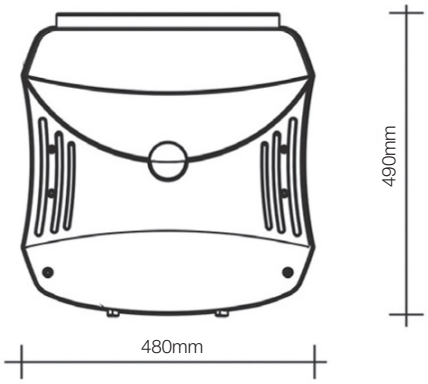
IRIS PLUS (REAR PROFILE)



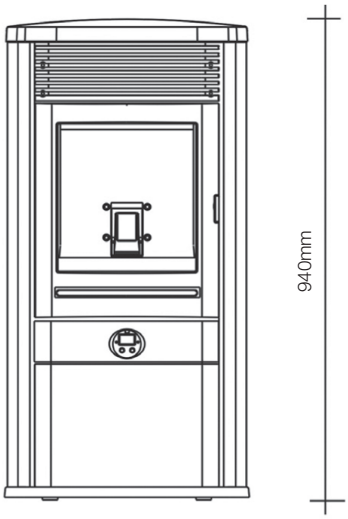
IRIS PLUS



LITTLE



LITTLE (FRONT PROFILE)



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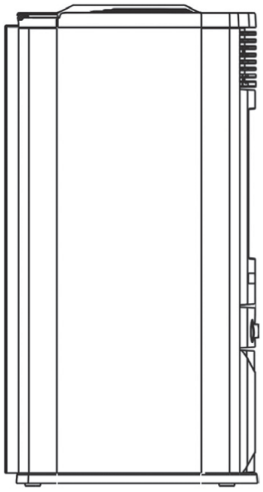
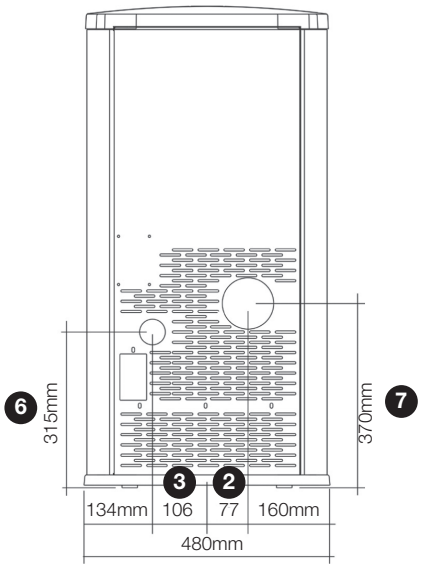


LITTLE (REAR PROFILE)



EdilKamin Installation Clearances & Specifications

Installation Clearances

Minimum clearances shown are in mm, and all figures for clearances are to combustible materials. All EdilKamin pellet fires are tested using all applicable procedures and equipment under AS/NZS2918:2001.

Rear Clearance Options

The 100mm rear clearance measurement “4” is based on the EdilKamin pellet fire having the vent system penetrating the rear wall behind the pellet fire and is the minimum clearances required for this type of installation.

Please Note: If the vent system is going to be visible in the room and exit through the ceiling, a minimum clearance of 80mm is required from the rear surface of the vent system to a combustible wall. A 250mm rear clearance is therefore recommended. Also consider the thickness of the scotia as this will determine how close the vent can be to the wall.

Optional Direct Vent Combustion Air Supply

The EdilKamin pellet fires have a direct vent option which when installed draws the combustion air from outside the home, further improving the efficiency of the pellet fire. This is recommended as the Iris Plus and Little pellet fires can use up to 24 cubic metres of room air every hour.

There are three methods of supplying the pellet fire with combustion air. They are as follows;

- DV WALL KIT ducts through an outside wall
- DV FLOOR KIT ducts through the floor directly behind the fire
- DV CEILING KIT ducts into the wall and up into the ceiling cavity

If using a thru wall exhaust vent in combination with a DV air intake kit, be sure to offset the DV air hole approximately 50mm to allow for the external flashings, this will vary depending on type of kit used.

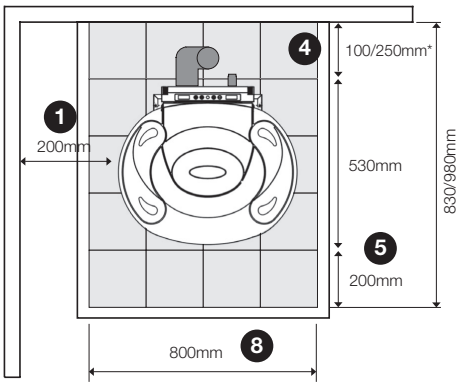
Warranty

Your EdilKamin Pellet fire is covered by a full 12 month warranty, and a three year firebox warranty. This warranty is subject to the unit being operated and maintained as detailed in the operation manual.

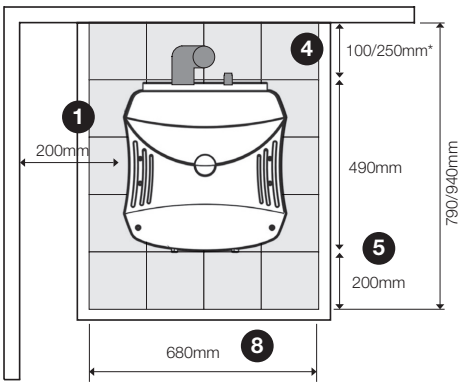
Model Clearances	1	2	3	4	5	6	7	8	9
EdilKamin Iris Plus	200	77	106	100/250*	200	320	375	800	160
EdilKamin Little	200	77	106	100/250*	200	315	370	680	160

**Please Note: Measurement 4 details the vent system using a wall or ceiling kit. 100mm = Vent through wall, 250mm = Vent through ceiling.*

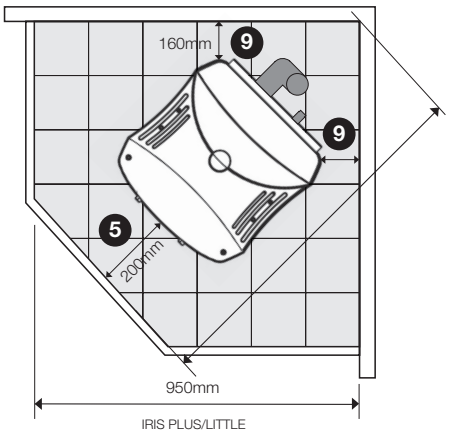
EdilKamin Iris Plus	600	950	530	140kg	8kW	Yes	0.61	70.6%
EdilKamin Little	480	940	470	136kg	5kW	Yes	0.38	73.8%



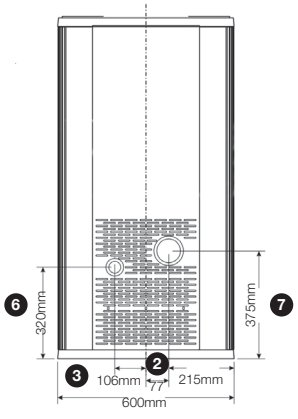
IRIS PLUS



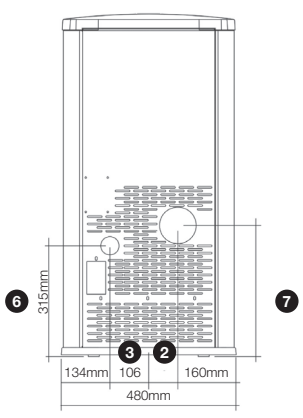
LITTLE



IRIS PLUS/LITTLE
CORNER INSTALLATION



IRIS PLUS (REAR PROFILE)



LITTLE (REAR PROFILE)

The Iris Plus Control Panel

⚠ WARNING! Important Information

- **DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS TO START OR REKINDLE THE FIRE**
- **DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHEN IT IS OPERATING**
- **AVOID CONTACT WITH HOT VENT PIPE**

Right adjuster wheel

For power adjustment during manual operation and temperature adjustment during automatic operation. The operating mode may be set using the MENU key on the central panel. The display shows the power or temperature set.

Left adjuster wheel

For room air flow adjustment, which in any case cannot be set lower than the minimum necessary to ensure cooling of the internal pellet fire parts.

Panel 0/1 button

To turn the fire on or off and quit time programming (prog).

Panel MENU key

For switching the fire from manual to automatic operation and vice versa, and entering time programming mode (prog).

"+" and "-" panel keys

For moving around in time programming mode (prog).

Display unit messages

- Ac: ignition stage (flame appearance)
- Ar: second ignition stage (flame stabilizing) before the operating stage
- Off: shutdown stage (10 minutes)
- P1 or P2 or P3: power level set
- 8-29: temperature set for automatic operation
- H1..H7: stoppage problem identification number (see p14)
- Pu: automatic combustion chamber cleaning under way
- nn: motor stopping; wait 30 seconds before entering other commands.

When the pellet fire is on standby, this flashes to show the mode it will restart in and when

Operation - Before ignition

The first few times the pellet fire is ignited there may be a slight smell of paint, which disappears rapidly.

Before ignition, check:

- The pellet fire has been installed correctly (see pages 5-9)
- The power supply.
- The door is closed.
- The combustion chamber is clean.
- The display shows standby (flashing power or temperature)

Auger loading

If the pellet hopper empties completely, press and release the + and - keys together to fill the auger. IR will be displayed. Press O/I to end.

This must be done before igniting the pellet fire again if it has shut down due to running out of pellets.

It is normal for a few pellets to be left in the hopper, which the auger is not able to pick up.

Ignition

Automatic ignition

Hold the 0/1 key down for two seconds with the pellet fire on standby to start the ignition procedure. Ac appears on the display for a few minutes (the ignition procedure does not actually take a preset time: it is automatically shortened if the electronics detect that certain tests are passed). The flame appears after about five minutes. It is normal for a little smoke to be seen in the combustion chamber before the flame appears. "Ar" appears on the display until the flame stabilizes.

Manual ignition

At temperatures of less than 3°C (too low for the heating element to glow) or if the heating element is temporarily out of order, a firelighter may be used for ignition.

Operating modes

(When the pellet fire is working, press the MENU key to switch between modes)

Manual: adjust the working power (from P1 to P3 with the right wheel) and the ventilation (with the left wheel).
Automatic: set the temperature which the room is to reach; the pellet fire automatically adjusts the working power to reach it (P3) or maintain it (P1).

If you set a lower temperature than current room temperature, the pellet fire operates at P1 and consumes the corresponding quantity of pellets.

Please Note: (Flame variability): Any variations in the state of the flame depend on the type of pellet used, the normal variability associated with solid fuels and the periodic automatic combustion chamber cleaning (which does NOT replace the essential cold vacuum cleaning by the user before ignition).

Switching off

Hold the 0/1 key down for two seconds while the pellet fire is operating. The shutdown procedure starts and the word "Off" appears on the display (for a total of 10 minutes).

During shutdown:

- Pellet loading ceases.
- Ventilation turns up to maximum.
- The smoke expulsion motor turns up to maximum.
- Never unplug the pellet fire while it is shutting down.

Weekly Timer Program built into the Iris Plus Control Panel

Weekly time programmer built into panel

Using the weekly time programmer built into the central panel it is possible to set 3 ignition programmes:

- Pr02 with settable on and off times;
- Pr02 with settable on and off times;
- Pr03 with settable on and off times.

It is possible to enable one or more of the three settings on each day of the week (day1 = Monday, day2 = Tuesday… day7 = Sunday).

When on standby, the display alternates between showing the ignition mode (P1, P2, P3 or a temperature) and the clock.

Refer to page 10 for each of the buttons to press.

Setting the clock

1. Hold the MENU key down for about two seconds until IP appears then release, tS appears.
2. Press the MENU key three times until Prog appears.
3. Press the "-" key until SEt appears.
4. Press the MENU key until the clock appears. It may be changed with the "-" key, which decreases the time by one minute each time it is pressed, and with the "+" key, which increases it by 15 minutes each time it is pressed.
5. Once the time is set, confirm with the MENU key.
6. The day number appears (dAY1=Monday, dAY2=Tuesday… dAY7=Sunday), which can be changed with the "-" and "+" keys.
7. Confirm with the MENU key. Prog appears.
8. Press the 0/1 key to quit clock setting.

Enabling programmes

1. Hold the MENU key down for about two seconds until IP appears then release, tS appears.
2. Press the MENU key three times until Prog appears.
3. Press the "+" key until ProF appears.

Note: PrON will be displayed if programming has previously been enabled. If so you can exit thie section by pressing O/1 and proceed to setting program section.

4. Press the MENU key until OFF appears.
5. Press the "+ " or "–" key until PrOn appears.
6. Confirm with the MENU key. Prog appears.
7. Press the O/1 key to return to standby.
8. The pellet fire is now in PrOn mode and will accept timed on and off commands.

Setting a program (e.g. Pr01)

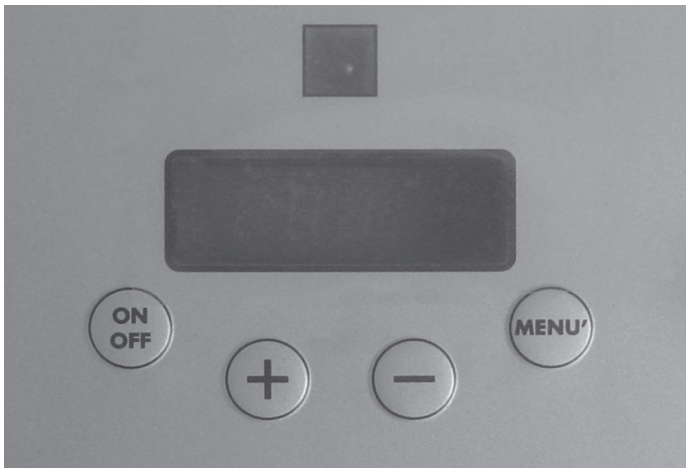
1. Hold the MENU key down for about two seconds until IP appears then release, tS appears.
2. Press the MENU key three times until Prog appears.
3. Press the "+" key twice until Pr 1 appears.
4. Press the MENU key until OnP1 appears together with the "on time". It may be changed with the "+" and "–" keys in ten-minute intervals.
5. Press the MENU key to confirm. OfP1 appears together with the off time. This may be changed with the "+" and "-" keys in ten-minute intervals.
6. Press MENU to confirm. "oFd1" appears (which means program 1 is not enabled on day 1, Monday). This may be changed into Ond1 (which means program 1 is enabled on day 1, Monday) using the "+" and "-" keys.
7. Press MENU to move to the second day, and so on until the desired day or days are selected then toggle on or off as required. So for example you could program the pellet fire to turn on at 4pm and off at 6pm Monday to Friday with Program 1 then turning on at 8am and off at 10am Saturday and Sunday with program 2.
8. Press the MENU key again and Prog appears.
9. To quit programming press the 0/1 key.

On and off times may be set for Pr 2 and Pr 3 in a similar way, and it can be decided which days they are enabled on.

Note: You can override the pre-programmed settings if need be.

Note: Automatic cleaning .. every 20 minutes the combustion fan will speed up for 10 seconds to blow excess ash from the burn pot.

The Little Control Panel



⚠ WARNING! Important Information

- **DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS TO START OR REKINDLE THE FIRE**
- **DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHEN IT IS OPERATING**

On/Off Key on panel

To switch the fire on and off, and to exit from the setting menu.

"Menu" Key on the panel

Press briefly to switch from Manual to Automatic pellet fire function. Also allows regulation air ventilation level adjustment (use +/- to vary the selected mode).

Messages displayed on the screen

- Ac: ignition stage (flame appearance)
- Ar: second ignition stage (flame stabilizing) before the operating stage
- Off: shutdown stage (10 minutes)
- P1 or P2 or P3: power level set
- 10-30: temperature set for automatic operation
- H1..H7: stoppage problem identification number (see p14)
- Pu: automatic combustion chamber cleaning under way
- nn: motor stopping; wait 20-30 seconds before entering other commands.

When the pellet fire is on standby, it displays the mode of operation with which it will restart and the time (flashing).

Operation – Before ignition

The first few times the pellet fire is ignited there may be a slight smell of paint, which disappears rapidly.

Before ignition, check:

- that the fire has been installed correctly (see pages 5-9)
- the power supply
- that the door is closed
- that the combustion chamber is clean
- standby is shown on the display (flashing power or temperature).

Auger loading

Any time the pellet hopper is fully empty, press the + key followed by the Menu key for a few seconds to fill the auger. IR will be displayed.

This operation must be carried out before ignition if the pellet fire ceased operating because it had run out of pellets.

It is normal for a few pellets, which the auger is not able to pick up, to remain in the hopper.

The auger filling phase will deactivate automatically after approximately 4 seconds, when the pellets begin to fall in the burn pot. The refilling phase can be stopped manually by pressing the "ON/OFF" key.

Ignition

Automatic ignition

Hold the ON/OFF key down for two seconds with the pellet fire on standby to start the ignition procedure. Ac will appear on the display for a few minutes. The ignition procedure does not have a set duration: it is automatically shortened if the electronics detect that certain tests have been passed. The flame appears after about 5 minutes. It is normal for a bit of smoke to develop in the combustion chamber before the flame appears. Ar then appears until the flame is stable.

Manual ignition

At temperatures below 3°C (too low for the heating element to glow) or if the heating element is temporarily out of order, a firelighter may be used for ignition.

Once the fire is running the display will flash between the current time and either the current POWER setting or the current preset room temperature.

Pressing the MENU button on either the front panel or the optional remote cycles through the three adjustable settings.

"Power" [The heat output P1 P2 P3]

"Air" [The speed of the room circulation fan 1 - 9]

"Temp" [The temperature the inbuilt thermometer is set to in degrees C 10 - 30]

To adjust one these press the "+"or "-" button while the desired setting is displayed.

Please Note: (Flame variability): Any variations in the state of the flame depend on the type of pellet used, the normal variability associated with solid fuels and the periodic automatic combustion chamber cleaning (which does NOT replace the essential cold vacuum cleaning by the user before ignition).

Switching off

Hold the ON/OFF key down for 2 seconds to start the shutdown procedure; the message "of" is then displayed (for a total of 10 minutes).

During shutdown:

- Pellet loading ceases.
- Ventilation turns up to maximum.
- The smoke expulsion motor turns up to maximum.
- Never unplug the pellet fire while it is shutting down.

Weekly Timer Program built into the Little Control Panel

Weekly time programmer built into panel

Using the weekly time programmer built into the central panel it is possible to set 3 ignition programmes:

- Pr01 with settable on and off times;
- Pr02 with settable on and off times;
- Pr03 with settable on and off times.

One or more of the three programs can be enabled for each day of the week (day1=Monday;day2=Tuesday… day7=Sunday).

When on standby the display alternates between displaying the ignition mode (P1, P2 or P3 or a temperature) and the current time.

Refer to page 12 for each of the buttons to be pressed.

Setting the clock

1. Hold the MENU key down for about two seconds until IP appears then release, tS appears.
2. Press (-) and “Prog” will appear.
3. Press “Menu” and “ProF” will appear. Press the (-) key and “SEt” will be displayed.
4. Confirm with the “Menu” key, which will display HOUR:MIN, values can then be varied with the (-) and (+) keys.
5. Once the hour has been set, confirm with “Menu” and the day number will appear (day 1=Monday, day2=Tuesday... day7=Sunday) which can be varied with the (-) and (+) keys.
6. Confirm with “Menu” and “Prog” will appear.
7. Press “ON/OFF” to exit from setting.

Enabling programmes

1. Hold the MENU key down for about two seconds until IP appears then release, tS appears.
2. Press (-) and “Prog” will appear.
3. Press “Menu” and “ProF” will appear.

Note: PrON will be displayed if programming has previously been enabled. If so you can exit thie section by pressing O/1 and proceed to setting program section.

4. Confirm by pressing the “Menu” key, pass now to “on” with the (-) or (+) keys.
5. Confirm with the “Menu” key and “Prog” will appear. Press “ON/OFF” to exit from setting.
6. The pellet fire is now in “PrOn” mode and will accept timed on and off commands.

Setting a program (e.g. Pr01)

1. Hold the MENU key down for about two seconds until IP appears then release, tS appears.
2. Press (-) and “Prog” will appear.
3. Press “Menu” and “ProF” or “PrOn” will appear. Press (+) until “Pr 1” appears (after PrOn has been set previously).
4. Confirm with the “Menu” key and OnP1 will appear and then the desired set hour for programme 1 ignition.
5. The time can be changed using the On/off (-) or (+) keys.
6. Press the “MENU” key to confirm.
7. OFd1 appears (indicating that program 1 is not enabled for day1, continue to go through the days, disabling/ enabling as required).
8. Press (+) to enable it, after which Ond1 appears, indicating that program 1 is enabled for Monday.
9. Press the “MENU” key to move on to the second day, Tuesday, and so on until day7.
10. Press the “On/off” to exit.
11. Pr02 and Pr03 on and off times and the days on which they are enabled can be set in a similar way.
12. A small green bar will light-up in the bottom right corner of the control panel when a program is enabled for that day.

Note: You can override the pre-programmed settings if need be.

Note: Automatic cleaning .. every 20 minutes the combustion fan will speed up for 10 seconds to blow excess ash from the burn pot.

Troubleshooting (Iris Plus & Little models)

Display-control panel off	no mains voltage	• make sure the power cord is connected • check the house fuse
Remote control (optional) not working	excessive distance from pellet fire	• move nearer to pellet fire
	remote control battery flat	• check battery and replace if necessary
Outlet air not hot	too much soot in heat exchanger	• clean heat exchanger from inside the firebox
No flame appears (remember that it only appears 5 minutes after pressing the 0/1 key)	the auger has not been filled	• fill auger (see paragraph on ignition)
Ignition failure	build up of unburnt material in combustion chamber	• clean combustion chamber
The ignition/off does not start at the time required	incorrect setting: • clock • programme enabling • programme enabling for the day	• check according to the instructions on page 10 (Iris Plus) and page 12 (Little)

Possible Causes of Shutdown (Iris Plus & Little models)

⚠ WARNING! Important Information

- **THE CHIMNEY AND SMOKE DUCTS CONNECTED TO THE PELLET FIRE MUST BE SWEPT AT LEAST ONCE A YEAR.**
- **LACK OF REGULAR CONTROLS AND CLEANING INCREASES THE RISK OF FIRE IN THE CHIMNEY, SHOULD A FIRE OCCUR PROCEED AS FOLLOWS:**
- **YOU MUST ISOLATE THE POWER SUPPLY BEFORE EXTINGUISHING THE CHIMNEY FIRE.**
- **EMPTY THE PELLET HOPPER.**
- **CONSULT SPECIALISED PERSONNEL BEFORE RESTARTING THE MACHINE AFTER THE INCIDENT.**

If the pellet fire shuts down, the reason is shown on the display.

- **H1** no depression: problem connected with air circulation;
- **H2** smoke expulsion motor failure;
- **SF** (H3) flame stop;
- **AF** (H4) ignition failed;
- **H5** power failure stoppage;
- **H6** thermocouple failure or disconnection;
- **H7** excessive smoke temperature.

The message is displayed until the “ON/OFF” (Little) or “0/1” (Iris Plus) key on the panel is pressed. Do not restart the pellet fire until the problem has been looked into and the cause removed.

To start the pellet fire up again after a shutdown, let the shutdown procedure end (10 minutes marked by a beep) then press the “ON/OFF” (Little) or “0/1” (Iris Plus) key.

Never unplug the pellet fire while it is shutting down owing to problems. Advice for each of the cases mentioned above is shown on the next page.

(H1) No vacuum

(trips when the flow sensor detects insufficient combustion air flow)

The flow may be insufficient because the door is open, or does not close tightly (e.g. bad seal), there is an air intake or smoke extraction problem or the combustion chamber is clogged up.

Check:

- door is closed
- combustion air extraction duct (clean it, taking care not to damage the flow sensor elements)
- flow sensor, cleaning it with dry air (such as that used to clean a PC keyboard)
- pellet fire position: must not be against the wall-combustion chamber position and cleaning (frequency connected with the type of pellets used)
- smoke duct (clean)- installation (if it does not comply with regulations and has more than 2-3 bends then the smoke outlet is not acceptable)
- flow sensor threshold (SF in the parameters).

Cold test the sensor if malfunction is suspected. If the value displayed does not vary when the conditions are changed, for example the door is opened, then the sensor is faulty.

The low pressure alarm may also occur during ignition as the flow sensor starts monitoring 90 seconds after the ignition cycle starts.

(H2) No expulsion

(trips if the smoke extraction revolution sensor detects a fault)

- Check that the smoke extractor is working properly.
- Check revolution sensor connection.
- Check that the smoke duct is clean.

Troubleshooting (Iris Plus & Little models)

SF (H3) No fire

(Trips when the thermocouple detects that the smoke temperature is lower than a set value, interpreting such as the absence of flame)

The flame may be absent due to:

- a lack of pellets
- too many pellets have smothered the flame
- the maximum temperature thermostat has tripped
  (this is unusual as it would indicate an excessive smoke temperature)

AF (H4) No start

(Trips if no flame appears or the start temperature is not reached within a maximum of 15 minutes).

Distinguish between the following two cases:

No flame has appeared

Check:
- position and cleaning of the combustion chamber
- that the combustion chamber receives combustion air
- that the heating element is working- room temperature (firelighter is required if below 3°C) and humidity.

Try lighting with firelighter

A flame has appeared but AR is displayed after AF

Check:
- that the thermocouple is working correctly
- that the start temperature is set within the parameters

(H5) Power Failure stoppage

H5 error power restored after power failure, both fans will run at full speed and display will flash H5. This is to ensure stove is fully cooled, the fans will stop after approx 15 minutes. Press O/I twice to restart. Check electrical connection and voltage drops.

(H6) Thermocouple Fault

(Trips if the thermocouple is faulty or disconnected)

Check connection between the thermocouple and the circuit board. Check operation during cold testing.

(H7) Over temp

(Shut down due to excessive smoke temperature)

Excessive smoke temperature may be caused by: type of pellets, smoke extraction fault, blocked duct, incorrect installation or gearmotor “drift”.

Cleaning and Maintenance of your pellet fire (Iris Plus & Little models)

⚠ **CAUTION!** Important Information

- **NEVER LOOSEN THE ALLEN SCREWS INSIDE THE FIREBOX: THE LOADER WILL FALL.**
- **NEVER VACUUM-CLEAN HOT ASH, SINCE IT MAY DAMAGE THE VACUUM CLEANER.**
- **ONLY EMPTY THE HOPPER AND VACUUM-CLEAN THE BOTTOM IF THE PELLET FIRE IS NOT IN USE, AND IN ANY CASE EVERY 15 DAYS.**
- **REGULAR MAINTENANCE IS ESSENTIAL FOR GOOD PELLET FIRE OPERATION.**
- **BEFORE CARRYING OUT ANY MAINTENANCE, DISCONNECT THE DEVICE FROM THE MAINS POWER SUPPLY.**
- **FAILURE TO CARRY OUT MAINTENANCE LEADS TO FORFEITURE OF THE GUARANTEE.**

After each bag of fuel

Clean with a vacuum cleaner when the pellet fire is cold. To protect your vacuum cleaner, we recommend always using a vacuum pot connected to your vacuum cleaner, which are available from your Metro Dealer. The whole process takes only a few minutes a day.

- Vacuum-clean the door, vacuum-clean the hearth and vacuum-clean the space around the combustion chamber where the ash falls (there is no extractable ash pan).
- Remove the combustion chamber or clean it with a scraper, and unblock any blocked holes on all sides.
- Vacuum-clean the combustion chamber compartment, clean touching edges and replace the combustion chamber.
- If necessary clean the glass with glass cleaner (when cold).

After a few months use dry air (PC keyboard type) to clean the flow sensor in the combustion air intake pipe.

Every season (by a qualified technician)

- General internal and external cleaning.
- Carefully clean the heat exchange pipes.
- Carefully clean and de-scale combustion chamber and corresponding compartment.
- Clean fan and mechanically inspect play and fastenings.
- Clean the vent system.
- Clean smoke extractor fan compartment, clean flow sensor and check thermocouple.
- Clean, inspect and de-scale ignition heating element compartment and change the heating element itself if necessary.
- Clean/check display-control panel.
- Visually inspect electric cables, connections and power cord.
- Clean pellet hopper and check auger-gearmotor assembly play.
- Check and change door seal if required.
- Test auger loading, ignition, operation for ten minutes and shutdown.

Warranty for your pellet fire (Iris Plus & Little models)

Warranty

Your EdilKamin Pellet fire is covered by a full twelve month warranty, and a three year firebox warranty.

Standard EdilKamin Warranty

(NZ Consumer laws apply to this warranty)

Pioneer Manufacturing Limited warrants the cast iron firebox against defective materials and workmanship which would render it unfit for normal domestic use within a period of three years after date of original purchase.

All other parts including electrical components, door, door seal and glass, are warranted for a period of one year from date of original purchase for domestic use against defective materials and workmanship.

Warranty Conditions:

- The heater must be installed, operated and maintained strictly in accordance with the building code and the manufacturer's installation and operation manuals.
- This warranty covers replacement or repair at the manufacturer's discretion but excludes freight, travel and/or any other associated costs.
- Operation of this appliance in violation of the warnings in the operation and installation manual will void this warranty.
- Failure to do the necessary inspection & maintenance of this appliance in accordance to the instructions in the operation manual will void this warranty. It is critical that the fire not be operated with faulty or missing door seals, cracked or broken door glass. These require regular inspection/maintenance and if not maintained will void the firebox warranty
- The manufacturer or their agents are not liable for any loss or expense direct or indirect arising from the failure of any part or operation of the appliance.
- A claim under this warranty should be directed to the retailer who supplied the EdilKamin Pellet fire, or if this is not possible write direct to the manufacturer stating details of fault, serial number of your EdilKamin Pellet fire, proof of purchase and name of retailer.

Warranty Exclusions:

This Manufacturers Warranty DOES NOT cover:

- Service calls which are not related to any defect in the Product (I.e operational, installation or fuel issues). The cost of a service call will be charged if the problem is not found to be a product fault.
- Defects caused by factors other than normal domestic use or use in accordance with the product's operation manual.
- Defects to the Product caused by accident, neglect, misuse or act of God. [eg: broken ceramics, power surges etc]
- The cost of repairs carried out by non-authorised repairers or the cost of correcting such unauthorised repairs.
- Normal recommended maintenance as set out in the Product's Owners Operation Manual.

Service under this manufacturer's warranty must be provided by a repairer authorised by Pioneer Manufacturing Limited. Such service shall be provided during normal business hours.

Pioneer Manufacturing Limited reserves the right change details without notice

Standards and Compliance Declaration:

The Iris Plus and Little Pellet Fires have been tested and comply with: AS/NZS 2918:2001, AS/NZS 4886:2007, AS/NZS 5078:2007, EN60355-1:2002 and EMC EN55014-1:2000

The Iris Plus and Little Pellet Fires have been manufactured by EdilKamin, a UNI EN ISO 9001 certified company.

PIONEER
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